

Durable 3D murine ex vivo retina glaucoma models for optical coherence tomography: supplement

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Durable 3D murine ex vivo retina glaucoma model for optical coherence tomography

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Supplementary information

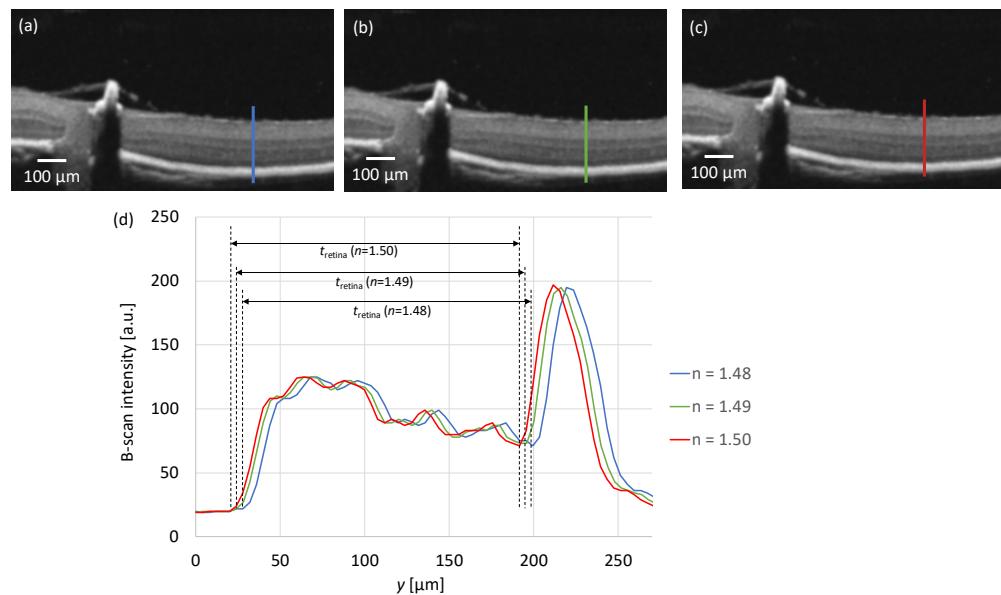


Fig. S1: Analysis of the possible impact of refractive index variations of the embedding media on the retina thickness determination. (a)-(c) Generated B-scans in which the geometric dimensions of the sample were determined by considering a embedding medium's refractive index of $n = 1.48$, 1.49, and 1.50, respectively. (d) Intensity of the B-scan images across the indicated lines in (a)-(c). The cross-section plots illustrate that the intensity of the B-scans is mainly shifted along the cross-section direction. The thickness of the retina t_{retina} obtained from the cross sections was determined to $t_{\text{retina}} = 163.6 \mu\text{m}$, $163.9 \mu\text{m}$ and $163.6 \mu\text{m} \pm 4.0 \mu\text{m}$, which is close to maximal axial resolution of the employed OCT system.